

WHAT IS CLAIMED IS:

1.           A projection type display unit comprising:  
              a light source unit;  
              a first cooling fan that cools the light  
source unit;  
              a light bulb that modulates beams of light  
from the light source unit;  
              a second cooling fan that cools the light  
bulb; and  
              a projection lens for projecting light  
modulated by the light bulb, and  
              wherein a first cooling wind path provided by  
the first cooling fan and a second cooling wind path  
provided by the second cooling fan are substantially  
independent of each other, and  
              the second cooling fan cools also an electric  
power source of the display unit.
2.           The projection type display unit according to  
claim 1, wherein an air intake port, the light bulb,  
the second cooling fan, the electric power source, and  
an air exhaust port are arranged in this order in the  
second cooling wind path.
3.           The projection type display unit according to  
claim 1, wherein a cooling wind from the second cooling  
fan cools the light bulb, and then cools the electric  
power source of the device.
4.           The projection type display unit according to  
claim 1, wherein the light bulb is arranged in an air

intake side of the second cooling fan and the electric power source of the device is arranged in an air exhaust side of the second cooling fan, and wherein the second cooling fan draws wind to cool the light bulb and the second cooling fan blows the wind against the electric power source to cool the same.

5. A projection type display unit comprising:

a light source unit;

a first cooling fan that cools the light source unit;

a light bulb that modulates beams of light from the light source unit;

a second cooling fan that cools the light bulb and an electric power source of the device; and

a projection lens for projecting light modulated by the light bulb, and

wherein the second cooling fan comprises a sirocco fan arranged below the light bulb, and wherein an intake air generated by the sirocco fan is taken in from above or laterally of the light bulb to cool the light bulb, and an exhaust air generated by the sirocco fan is blown against the electric power source to cool the electric power source.

6. A projection type display unit comprising:

a light source unit;

a first cooling fan that cools the light source unit;

a light bulb that modulates beams of light

from the light source unit;

a second cooling fan that cools the light bulb and an electric power source of the device; and

a projection lens for projecting light modulated by the light bulb, and

wherein the second cooling fan comprises a sirocco fan arranged above the light bulb, and wherein an intake air generated by the sirocco fan is taken in from below or laterally of the light bulb to cool the light bulb, and an exhaust air generated by the sirocco fan is blown against the electric power source to cool the electric power source.

7. The projection type display unit according to claim 1, further comprising a polarization conversion element for polarization converting beams of light from the light source unit, and a duct that constitutes a wind path for cooling wind produced by the second cooling fan, and

wherein an exhaust air from the second cooling fan cools the electric power source and the polarization conversion element.

8. The projection type display unit according to claim 2, further comprising a polarization conversion element for polarization converting beams of light from the light source unit, and a duct that constitutes a wind path for cooling wind produced by the second cooling fan, and

wherein an exhaust air from the second

cooling fan cools the electric power source and the polarization conversion element.

9. The projection type display unit according to claim 3, further comprising a polarization conversion element for polarization converting beams of light from the light source unit, and a duct that constitutes a wind path for cooling wind produced by the second cooling fan, and

wherein an exhaust air from the second cooling fan cools the electric power source and the polarization conversion element.

10. The projection type display unit according to claim 4, further comprising a polarization conversion element for polarization converting beams of light from the light source unit, and a duct that constitutes a wind path for cooling wind produced by the second cooling fan, and

wherein an exhaust air from the second cooling fan cools the electric power source and the polarization conversion element.

11. The projection type display unit according to claim 5, further comprising a polarization conversion element for polarization converting beams of light from the light source unit, and a duct that constitutes a wind path for cooling wind produced by the second cooling fan, and

wherein an exhaust air from the second cooling fan cools the electric power source and the

polarization conversion element.

12.           The projection type display unit according to claim 6, further comprising a polarization conversion element for polarization converting beams of light from the light source unit, and a duct that constitutes a wind path for cooling wind produced by the second cooling fan, and

              wherein an exhaust air from the second cooling fan cools the electric power source and the polarization conversion element.